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PATENT
Attorney Docket No.: 021318-001710US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Marwan A. Jabri et al.

Application No.: 10/732,917

Filed: December 9, 2003

For: METHODS AND SYSTEM FOR FAST SESSION ESTABLISHMENT BETWEEN EQUIPMENT USING H.324 AND RELATED TELECOMMUNICATIONS PROTOCOLS

Customer No.: 20350

Confirmation No. 7366

Examiner: Wellington Chin

Technology Center/Art Unit: 2664

PETITION TO MAKE SPECIAL FOR NEW APPLICATION PURSUANT TO 37 C.F.R. § 1.102(d) & M.P.E.P. § 708.02, Item VIII, ACCELERATED EXAMINATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This is a petition to make special the above-identified application in accordance with MPEP § 708.02, Item VIII, accelerated examination. The application has not received any examination by the Examiner.

(A) The Commissioner is authorized to charge the petition fee of $130 under 37 C.F.R. § 1.17(h), and any additional fees that may be associated with this petition may be charged to Deposit Account No. 20-1430.

(B) All the claims are believed to be directed to a single invention. If the examiner determines that all the claims presented are not obviously directed to a single

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invention, then Applicants will make an election without traverse as a prerequisite to the grant of special status where the specific grouping of claims will be determined by the examiner.

(C) A pre-examination search was performed by an independent patent search firm. The search was made in at least the following classes (indicated in bold lettering) and subclasses: **370**/329; **370**/352; **370**/354; **455**/426.1; and **455**/458. In addition, the following databases were searched using the keywords listed below:

Databases:

- IEEE Journals and Conference Papers
- US Patents
- US Patent Applications
- European Patents
- European Applications
- WIPO/PCT Publications
- Abstracts of Japan
- INPADOC

Keywords:

- FAST SESSION ESTABLISHMENT and H.324 and TELECOMMUNICATIONS PROTOCOL
- FAST SESSION and H.324 and TELECOMMUNICATIONS PROTOCOL H.324 and telecommunication and protocol
- FAST SESSION and ESTABLISH and TELECOMMUNICATION and PROTOCOL
- 324 and multimedia and fast
- 324 and multimedia and (fast or speed or efficiency or speed-up)
- terminals and connect and telecommunication and 324
- 245 and telecommunication and multimedia
- process and call and reduce and setup time
- process and call and reduce and setup time and telecommunication
- 324 and process and call and reduce and setup time and telecommunication terminal and telecommunication network and ((call setup time) or (call and setup time) or (call and setup and time))
- 324 and (terminal or handset or server) and telecommunication and network and ((call setup time) or (call and setup time) or (call and setup and time))
- preference and (terminal or handset or server) and telecommunication and network and ((call setup time) or (call and setup time) or (call and setup and time))
- telecommunication and network and reduced and ((call setup time) or (call and setup time) or (call and setup and time))
- (terminal or equipment) and multimedia and telecommunication and reduced and (call setup time)

- multimedia and telecommunication and ((call setup time) or (establish connection))
- reduce and time and establish and (calls or connection) and multimedia
- speed up and (calls or connection or session) and multimedia and (terminal or equipment)
- (3gpp or 3gpp2) and (245 or 324)
- concatenate and multimedia
- interoperability and equipment and multimedia
- telecommunication network and session and establish
- telecommunication network and session and (fast or efficient or speed up)
- telecommunication network and session and (fast or efficient or speed up or reduced) and setup time
- routing and telecommunication network and setup time
- routing and telecommunication network and setup time and (reduced or fast)
- (reduce or minimize or fast or speed up) and call setup time and (telecommunication or multimedia) and network
- speed up and setup time and multimedia
- telecommunication and multimedia and reduce and time and ITU- T H 324
- call and initiate and telecommunication and multimedia and ITU-T H 324

A copy of the search report is provided herewith as Exhibit A.

The references listed in the search report along with additional references based on the knowledge of the Applicants, including Marwan A. Jabri, have been included in an Information Disclosure Statement filed April 15, 2004, a Supplemental Information Disclosure Statement submitted February 28, 2005, and a second Supplemental Information Disclosure Statement submitted herewith.

No inference should be made that these references are prior art for purposes under 35 U.S.C. §§ 102 and 103 merely because they are cited in the present petition, the search report, or the information disclosure statements. Applicants have not made any admission that these references are prior art for purposes under 35 U.S.C. §§ 102 and 103.

In sum, the following references have been identified:

(1) U.S. Patent No.:
6,636,745

(2) U.S. Application Publication Nos.:
2003/0202487
2004/0076145

2004/0158647

(3) PCT International Publication Nos.:

WO 01/37606

WO 01/76288

WO 02/052825

WO 02/071721

(4) Non-Patent Literature Documents:

WEN et al., Implement of system control part in a multimedia communication terminal, State Key Laboratory on Microwave & Digital Communications, *Communication Technology Proceedings,* 2000. WCC - ICCT 2000. International Conference on, Meeting Date: 08/21/2000 - 08/25/2000, Volume 2, Publication Date: 21-25 Aug. 2000, Location: Beijing, China, pp 1372 - 1375.

LEE et al., An implementation of control protocol for multipoint audio-video teleconferencing systems, Distributed Multimedia Section, Electron. & Telecommun. Res. Inst., Taejon, South Korea, Information Networking, 1998. (ICOIN-12) Proceedings, Twelfth International Conference on, Meeting Date: 01/21/1998 - 01/23/1998, Publication Date: 21-23 Jan. 1998, Location: Tokyo, Japan, pp. 38 - 41.

JABRI, Dilithium Networks, The 3G-324M protocol for conversational video telephony, *Multimedia, IEEE*, Volume 11, Issue 3, Publication Date: July-Sept. 2004, pp,. 102 - 105.

LINDBERGH, PictureTel Corporation, The H.324 multimedia communication standard, *Communications Magazine, IEEE*, Volume 34, Issue 12, Publication Date: Dec. 1996, pp. 46 - 51.

(D) Copies of all references referred to herein are enclosed herewith, collectively as Exhibit B.

(E) Set forth below is a detailed discussion of the references, pointing out with particularity how the claimed subject matter recited in the claims, amended according to the second preliminary amendment filed herewith, is distinguishable over the references.

Claimed Subject Matter of the Present Invention

The present invention is directed to methods of establishing multimedia telecommunications.

Independent claim 7 recites a method of initiating a call between users with reduced call set-up times using one or more telecommunication networks. The method is provided between at least a pair of H.324-like terminals coupled to the one or more telecommunication networks. The method includes transmitting a call signaling message from a first terminal to a second terminal through a telecommunication network to initiate a call and establishing a bearer channel between the first terminal and the second terminal once the call signaling message has been received by the second terminal. The method also includes determining a common mobile level for operation and providing one or more custom Non-Standard H.245 messages or custom Non-Standard fields in standard messages. The one or more custom H.245 messages or custom Non-Standard fields are associated with one or more set up parameters for an initial predetermined mode of operation. The method further includes transmitting the one or more custom Non-Standard H.245 messages or custom Non-Standard fields in standard messages from the first terminal to the second terminal and transmitting a custom Non-Standard response message associated with the one or more custom Non-Standard H.245 messages or custom Non-Standard fields from the second terminal to the first terminal. The method additionally includes processing the one or more custom H.245 messages or custom Non-Standard fields during a predetermined time period and establishing the initial predetermined mode of operation between the first terminal and the second terminal through the bearer channel based upon at least one or more of the custom H.245 messages or custom Non-Standard fields. Dependent claims 8 - 9 recite specific aspects of the present invention.

Independent claim 29 recites a computer-readable medium including instructions for initiating a call between users with reduced call set-up times using one or more telecommunication networks. The computer-readable medium is provided between at least a pair of H.324-like terminals coupled to the one or more telecommunication networks. The computer-readable medium includes one or more instructions for transmitting a call signaling message from a first terminal to a second terminal through a telecommunication network to initiate a call and one or more instructions for establishing a bearer channel between the first terminal and the second terminal once the call signaling message has been received by the second terminal. The computer-readable medium also includes one or more instructions for determining a common mobile level for operation and one or more instructions for providing one or more custom Non-Standard H.245 messages or custom Non-Standard fields in standard messages. The one or more custom H.245 messages or custom Non-Standard fields are associated with one or more set up parameters for an initial predetermined mode of operation. The computer-readable medium further includes one or more instructions for transmitting the one or more custom Non-Standard H.245 messages or custom Non-Standard fields in standard messages from the first terminal to the second terminal and one or more instructions for transmitting a custom Non-Standard response message associated with the one or more custom Non-Standard H.245 messages or custom Non-Standard fields from the second terminal to the first terminal. The computer-readable medium additionally includes one or more instructions for processing the one or more custom H.245 messages or custom Non-Standard fields during a predetermined time period and one or more instructions for establishing the initial predetermined mode of operation between the first terminal and the second terminal through the bearer channel based upon at least one or more of the custom H.245 messages or custom Non-Standard fields. Dependent claims 30 - 31 recite specific aspects of the present invention.

Independent claim 45 recites a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes transmitting a call signaling message from a first device to a second device through a telecommunication network to initiate a call and

establishing a bearer channel between the first device and the second device once the call signaling message has been received by the second device. The method also includes determining a mobile level for operation and providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method further includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages, processing the one or more custom H.245 messages or custom fields, and establishing the mode of operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields. Dependent claims 46 - 73 recite specific aspects of the present invention.

Independent claim 74 recites a computer-readable medium including instructions for initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The computer-readable medium is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The computer-readable medium includes one or more instructions for transmitting a call signaling message from a first device to a second device through a telecommunication network to initiate a call and one or more instructions for establishing a bearer channel between the first device and the second device once the call signaling message has been received by the second device. The computer-readable medium also includes one or more instructions for determining a mobile level for operation and one or more instructions for providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The computer-readable medium further includes one or more instructions for transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages, one or more instructions for processing the one or more custom H.245 messages or custom fields, and one or more instructions for establishing the mode of operation between the first device and the second device through the bearer channel based upon at least one or more of

the one or more custom H.245 messages or custom fields. Dependent claims 75 - 102 recite specific aspects of the present invention.

U.S. Patent No. 6,636,745

This reference describes a method of shortening call-setup time while still providing the benefit of the Quick Paging Channel (QPCH).

Referring to figures 2 and 3, logic flow diagrams of steps executed by a communication infrastructure and a communication unit are illustrated. The infrastructure transmits QPCH indicators of what paging messages will be transmitted (206). For a paging slot that the communication unit monitors, the unit receives (306) the QPCH indicators of what paging messages will be transmitted in the paging slot. Assuming that the indicators were unambiguously received and that they indicate that the communication unit is one of a group of units of which some will be addressed by paging messages, the communication unit begins transmitting a page response message (308). The infrastructure begins transmitting (214) the paging messages for the paging slot while simultaneously receiving (208) page response messages from communication units responding to the QPCH indicators.

When (210) a page response message from a communication unit that is addressed by one of the paging messages in this paging slot is received, the infrastructure begins processing (216) it as a valid response. Thus, the "preemptive" page response from the communication unit shortens call-setup time by the time that a communication unit would otherwise be monitoring its paging slot for a page message specifically addressed to itself.

This reference does not disclose at least a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method also includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages and processing the one or more custom H.245 messages or custom fields. The method further includes establishing the mode of operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields.

Moreover, this reference does not provide the benefits available through embodiments of the present invention, including reducing the time that is taken from the point when a user requests the establishment of a call to the point where media is exchanged between the terminals.

Hence the above reference does not disclose or suggest the present invention as recited in the pending claims.

U.S. Application Publication No. 2003/0202487

This reference describes a method and apparatus for reducing call setup time in communication systems. In particular, the reference discusses provision of dispatch communication services, also known as push to talk (PTT) services. To address the need for reducing call setup time, upon receiving a PTT service request, a radio access network (RAN) transmits a channel assignment message in a paging slot monitored by a target mobile station (MS). The target MS responds to this channel assignment page indicating its availability and location within the RAN coverage area. The target MS then proceeds to the assigned traffic channel without waiting for any acknowledgement.

The RAN then indicates the availability of the target unit to the calling unit that originated the service request, generally by generating a talk permit tone (TPT) signaling the use that they may begin speaking. In this way, the service originator is able to begin the service as soon as the target MS responds to the channel assignment page and the RAN indicates the target unit is available. As illustrated in figure 1C, the method discussed by the reference decreases the time between PTT and generation of the TPT compared to the prior art methods.

This reference does not disclose at least a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method also includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages and processing the one or more

custom H.245 messages or custom fields. The method further includes establishing the mode of operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields.

Moreover, this reference does not provide the benefits available through embodiments of the present invention, including reducing the time that is taken from the point when a user requests the establishment of a call to the point where media is exchanged between the terminals.

Hence the above reference does not disclose or suggest the present invention as recited in the pending claims.

U.S. Application Publication No. 2004/0076145

This reference describes a method and system for establishing a connection to a terminal device, wherein a user capability information defining supported types of information streams is set in a compatibility information element within an outband signaling message, and a capability negotiation is performed by transmitting said outband signaling message via an outband control channel. The code or user capability information may be set at the terminal device or at an intermediate network element based on subscriber profile information obtained from a subscriber database. Thereby, the user capability, such as a multimedia session composition, can be already negotiated or handled during the outband call setup phase, and a corresponding inband negotiation can be avoided.

This reference does not disclose at least a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method also includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages and processing the one or more custom H.245 messages or custom fields. The method further includes establishing the mode of

operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields.

Moreover, this reference does not provide the benefits available through embodiments of the present invention, including reducing the time that is taken from the point when a user requests the establishment of a call to the point where media is exchanged between the terminals.

Hence the above reference does not disclose or suggest the present invention as recited in the pending claims.

U.S. Application Publication No. 2004/0158647

This reference describes a gateway for connecting different types of networks and generating information for charging fees on the basis of the connection. The gateway is designed to connect a first network (such as a 3G network) and a second network (such as an ISP network) that use different signal formats and protocols.

The gateway includes a conversion section, a detection section, and a network-connecting section. The conversion section converts a signal used in the first network to a signal to be used in the second network and vice versa. The detection section detects conversion-process information containing either the time spent to convert the signal and/or the amount of data converted. The network-connecting section is connected to either the first and/or second networks and transmits the conversion-process information to a fee-charging system associated with either the first or the second network.

This reference does not disclose at least a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method also includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages and processing the one or more custom H.245 messages or custom fields. The method further includes establishing the mode of

operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields.

Moreover, this reference does not provide the benefits available through embodiments of the present invention, including reducing the time that is taken from the point when a user requests the establishment of a call to the point where media is exchanged between the terminals.

Hence the above reference does not disclose or suggest the present invention as recited in the pending claims.

PCT International Publication No. WO 01/37606

This reference describes a method for identifying the type of telecommunications service required during call establishment over two networks. More particularly, the reference relates to call setup procedures to connect the Public Switched Telephone Network (PSTN) terminals to digital networks.

This reference discusses the use of indicators in call control signals to indicate the involvement of a PSTN terminal. Either terminal of an end-to-end connection can initiate the call and likewise either can respond to the call control signals initiated by the other terminal to immediately recognize the unambiguous fact that a PSTN terminal is involved in the call and to immediately respond by correctly setting up an appropriate and compatible communication format.

This reference does not disclose at least a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method also includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages and processing the one or more custom H.245 messages or custom fields. The method further includes establishing the mode of

operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields.

Moreover, this reference does not provide the benefits available through embodiments of the present invention, including reducing the time that is taken from the point when a user requests the establishment of a call to the point where media is exchanged between the terminals.

Hence the above reference does not disclose or suggest the present invention as recited in the pending claims.

PCT International Publication No. WO 01/76288

This reference discusses a method and apparatus for establishing a connection in a communication network allowing a fallback connection in case the requested service is not supported.

Referring to figure 3, initially, a multimedia UDI/RDI call, e. g. a H. 324 call, is requested. The signaling response received from the other party is monitored (S101). If the establishment of the UDI/RDI call is possible, signaling is initiated so as to establish the UDI/RDI call (S103). If, on the other hand, a UDI/RDI call is not possible, the fallback control unit initiates a fallback procedure to a speech call using the standard in-call modification procedure (S104).

This reference does not disclose at least a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method also includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages and processing the one or more custom H.245 messages or custom fields. The method further includes establishing the mode of operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields.

Moreover, this reference does not provide the benefits available through embodiments of the present invention, including reducing the time that is taken from the point when a user requests the establishment of a call to the point where media is exchanged between the terminals.

Hence the above reference does not disclose or suggest the present invention as recited in the pending claims.

PCT International Publication No. WO 02/052825

This reference corresponds to U.S. Patent Application No. 10/450,956, which published on April 22, 2004 as U.S. Patent Application Publication No. 2004/0076145.

This reference does not disclose at least a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method also includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages and processing the one or more custom H.245 messages or custom fields. The method further includes establishing the mode of operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields.

Moreover, this reference does not provide the benefits available through embodiments of the present invention, including reducing the time that is taken from the point when a user requests the establishment of a call to the point where media is exchanged between the terminals.

Hence the above reference does not disclose or suggest the present invention as recited in the pending claims.

PCT International Publication No. WO 02/071721

This reference discusses a method and a terminal device for transmitting and receiving attachment data of extra attachments in multimedia sessions or calls, for example, VoIP (Voice over Internet Protocol) sessions. Because IP packets can have size restrictions, this reference discusses a fragmentation technique for the transmission of large attachments.

Referring to figure 3, an attachment is spread over three successive SIP messages by fragmenting that attachment and attaching or multiplexing the fragments over the three messages. Accordingly, the callee receives the attachments before the phone starts ringing. This references discusses an example of an imaging capable phone that receives attachments such as colorful images, animations, audio, video, or simple text messages by using the fragmentation technique.

This reference does not disclose at least a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method also includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages and processing the one or more custom H.245 messages or custom fields. The method further includes establishing the mode of operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields.

Moreover, this reference does not provide the benefits available through embodiments of the present invention, including reducing the time that is taken from the point when a user requests the establishment of a call to the point where media is exchanged between the terminals.

Hence the above reference does not disclose or suggest the present invention as recited in the pending claims.

WEN et al., Implement of system control part in a multimedia communication terminal

This reference describes how to implement system control of an ITU-T H.323 multimedia terminal over a LAN (packet network). This reference reviews the ITU-T H.323 standard and its components, namely the H.245 command and control protocol and the H.225.0 packetization and synchronisation protocol (including the Q.931 signalling protocol). This reference also reviews how audio and video packets are transmitted using the multimedia terminal.

This reference introduces

> "how to set up a call by point-to-point way.
>
> 1.) Two terminals are listening at a famous TCP port 1720.
>
> 2.) Caller sends Setup Message to callee with self-information, for example Call Reference, Bearer Capability, Display, User-to-user (encoded by ASN.1) and so on.
>
> 3.) Callee receives Setup Message from caller. Send backs Alerting Message and ask user whether to accept it or not. If refuse, send Release-Complete Message; if accept, send Connect Message. H.245 Port Number is sending with Connect Message, and the callee listen at this Port waiting for caller to establish H.245 Connection."

This reference does not disclose at least a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method also includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages and processing the one or more custom H.245 messages or custom fields. The method further includes establishing the mode of operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields.

Moreover, this reference does not provide the benefits available through embodiments of the present invention, including reducing the time that is taken from the point when a user requests the establishment of a call to the point where media is exchanged between the terminals.

Hence the above reference does not disclose or suggest the present invention as recited in the pending claims.

LEE et al., An implementation of control protocol for multipoint audio-video teleconferencing systems

This reference describes a computer based multipoint teleconferencing system which consists of terminals with audio/video codecs and network interfaces. This reference describes the hardware (e.g., terminal) and software (e.g., H.255.0 for call setup and control) architecture of the H.323 teleconferencing system. Additionally, it describes the procedures and the implementation structure of the control protocol for multipoint audio-video teleconferencing systems.

To communicate with users, a H.245 data structure that contains information for H.245 processing is used. At the beginning of a conference, the data structures of H.245 and all the entities are allocated. The implemented module of the control protocol can be also used in H.324 systems.

This reference does not disclose at least a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method also includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages and processing the one or more custom H.245 messages or custom fields. The method further includes establishing the mode of operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields.

Moreover, this reference does not provide the benefits available through embodiments of the present invention, including reducing the time that is taken from the point when a user requests the establishment of a call to the point where media is exchanged between the terminals.

Hence the above reference does not disclose or suggest the present invention as recited in the pending claims.

JABRI, The 3G-324M protocol for conversational video telephony

This reference describes a 3G-324M system, which is a third-generation (3G) conversational video-telephony service. It also describes its roots, the ITU-T H.324 system.

As shown in Figure 1, this reference illustrates the functionalities of each system module according to the 3GPP 3G-324M technical specification.

This reference describes the operations in a 3G-324M session, which involves call signaling and bearer establishment. Low-level connectivity is about establishing a digital bearer (link) between two handsets. Mobile-level detection is the first step in the protocol-establishment process. After the terminals have established a common mobile level, the H.223 multiplexer (MUX) immediately becomes operational on the data link. The MUX frames will carry H.245 messages, which are encapsulated using the Numbered Simple Retransmission Protocol (NSWP). The process continues with terminal capability exchange, master-or-slave determination, media logical channels and multiplex tables. Once logical channels are open and MTEs are defined, handsets are in a position to exchange voice, video and data.

This reference does not disclose at least a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method also includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages and processing the one or more custom H.245 messages or custom fields. The method further includes establishing the mode of

operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields.

Moreover, this reference does not provide the benefits available through embodiments of the present invention, including reducing the time that is taken from the point when a user requests the establishment of a call to the point where media is exchanged between the terminals.

Hence the above reference does not disclose or suggest the present invention as recited in the pending claims.

LINDBERGH, The H.324 multimedia communication standard

This reference describes the ITU-T H.324 international standard for multimedia communication on low-bit-rate circuit-switched networks, including ordinary analog telephone lines.

In particular, it discusses the seven phase (A - G) setup and teardown of an H.324 call. In Phase A, an ordinary telephone call is setup using the normal procedure for dialing, ringing, and answering. An ordinary telephone call is conducted in Phase B until one of the users decides to switch the call into H.324 multimedia mode. Phase C begins with modem negotiations including capabilities. In Phase D, the terminals first communicate with each other on the H.245 control channel. The terminals are initialized, and detailed terminal capabilities are exchanged using H.245. Phase E is normal multimedia communications mode. Phase F is entered when either user wants to end the call. In Phase G, the terminals disconnect.

This reference does not disclose at least a method of initiating a call between users with reduced call set-up times using one or more 3G telecommunication networks. The method is provided between at least a pair of H.324-like devices coupled to the one or more 3G telecommunication networks. The method includes providing one or more custom H.245 messages or custom fields in one or more standard H.245 messages. The one or more custom H.245 messages or custom fields are associated with one or more parameters for a mode of operation. The method also includes transmitting the one or more custom H.245 messages or custom fields in the one or more standard H.245 messages and processing the one or more custom H.245 messages or custom fields. The method further includes establishing the mode of

operation between the first device and the second device through the bearer channel based upon at least one or more of the one or more custom H.245 messages or custom fields.

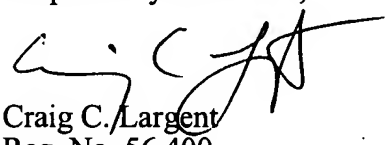
Moreover, this reference does not provide the benefits available through embodiments of the present invention, including reducing the time that is taken from the point when a user requests the establishment of a call to the point where media is exchanged between the terminals.

Hence the above reference does not disclose or suggest the present invention as recited in the pending claims.

CONCLUSION

In view of comments presented in the present petition and claim amendments presented in the preliminary amendment filed herewith, the Examiner is respectfully requested to issue a first Office action at an early date.

Respectfully submitted,



Craig C. Largent
Reg. No. 56,400

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Attachments
CCL/RTO/ka
60643931 v1

PATENT & TRADEMARK OFFICE
FEB 29 2006

PETITION FEE
Under 37 CFR 1.17(f), (g) & (h)
TRANSMITTAL
(Fees are subject to annual revision)

Send completed form to: Commissioner for Patents
P.O. Box 1450, Alexandria, VA 22313-1450

Application Number	10/732,917
Filing Date	December 9, 2003
First Named Inventor	Jabri, Marwan A.
Art Unit	2664
Examiner Name	Wellington Chin
Attorney Docket Number	021318-001710US

Enclosed is a petition filed under 37 CFR §1.102(d) that requires a processing fee (37 CFR 1.17(f), (g), or (h)). Payment of $ 130 is enclosed.

This form should be included with the above-mentioned petition and faxed or mailed to the Office using the appropriate Mail Stop (e.g., Mail Stop Petition), if applicable. *For transmittal of processing fees under 37 CFR 1.17(i), see form PTO/SB/17i.*

Payment of Fees (small entity amounts are NOT available for the petition fees)

☒ The Commissioner is hereby authorized to charge the following fees to Deposit Account No. 20-1430:

☒ petition fee under 37 CFR 1.17(f), (g) or (h) ☒ any deficiency of fees and credit of any overpayments

Enclose a duplicative copy of this form for fee processing.

☐ Check in the amount of $_____ is enclosed.

☐ Payment by credit card (Form PTO-2038 or equivalent enclosed). Do not provide credit card information on this form.

Petition Fees under 37 CFR 1.17(f): Fee $400 Fee Code 1462

For petitions filed under:

§ 1.36(a) - for revocation of a power of attorney by fewer than all applicants.
§ 1.53(e) - to accord a filing date.
§ 1.57(a) - to accord a filing date.
§ 1.182 - for decision on a question not specifically provided for.
§ 1.183 - to suspend the rules.
§ 1.378(e) - for reconsideration of decision on petition refusing to accept delayed payment of maintenance fee in an expired patent.
§ 1.741(b) - to accord a filing date to an application under § 1.740 for extension of a patent term.

Petition Fees under 37 CFR 1.17(g): Fee $200 Fee Code 1463

For petitions filed under:

§ 1.12 - for access to an assignment record.
§ 1.14 - for access to an application.
§ 1.47 - for filing by other than all the inventors or a person not the inventor.
§ 1.59 - for expungement of information.
§ 1.103(a) - to suspend action in an application.
§ 1.136(b) - for review of a request for extension of time when the provisions of section 1.136(a) are not available.
§ 1.295 - for review of refusal to publish a statutory invention registration.
§ 1.296 - to withdraw a request for publication of a statutory invention registration filed on or after the date the notice of intent to publish issued.
§ 1.377 - for review of decision refusing to accept and record payment of a maintenance fee filed prior to expiration of a patent.
§ 1.550(c) - for patent owner requests for extension of time in ex parte reexamination proceedings.
§ 1.956 - for patent owner requests for extension of time in inter partes reexamination proceedings.
§ 5.12 - for expedited handling of a foreign filing license.
§ 5.15 - for changing the scope of a license.
§ 5.25 - for retroactive license.

Petition Fees under 37 CFR 1.17(h): Fee $130 Fee Code 1464

For petitions filed under:

§ 1.19(g) - to request documents in a form other than that provided in this part.
§ 1.84 - for accepting color drawings or photographs.
§ 1.91 - for entry of a model or exhibit.
✓ **§ 1.102(d)** - to make an application special.
§ 1.138(c) - to expressly abandon an application to avoid publication.
§ 1.313 - to withdraw an application from issue.
§ 1.314 - to defer issuance of a patent.

Signature — Date: 2/21/06

Craig C. Largent — Typed or printed name

56,400 — Registration No., if applicable

EXHIBIT A

SysLab, Inc.
3500 Granada Avenue, Suite 234
Santa Clara, CA 95051
Office: (408) 244-6930
Cell: (617) 803-0620
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Dated: February 14, 2005

To,
Daniel H. Mao, PhD
Attorney at Law
Townsend and Townsend and Crew LLP
379 Lytton Avenue
Palo Alto, CA 94301.

Ref: Patentability search results for ***"Methods and System for Fast Session Establishment between Equipment using H.324 and related Telecommunications Protocols"*** (Townsend ref# 021318-001711US)

Dear Dr. Mao:

The above-mentioned search has been completed. The databases searched, search strategies used, and prior art found is documented in the following pages.

PDFs of patent prior art are being attached herewith. Hard copies of the non-patent prior art will be at your office by 10:30am on this Wednesday (February 16th).

We look forward to working with you on another search project soon.

Sincerely,

Mahesh Bhatia
Director, IP-related Research Services
SysLab

Priority Date Used for Searches:
September 3, 2004

Databases Searched:
- IEEE Journals and Conference Papers
- US (Granted)
- US (Applications)
- European (Granted)
- European (Applications)
- WIPO PCT Publications
- Abstracts of Japan
- INPADOC

Keywords Used:
- FAST SESSION ESTABLISHMENT and H.324 and TELECOMMUNICATIONS PROTOCOL
- FAST SESSION and H.324 and TELECOMMUNICATIONS PROTOCOL
- h.324 and telecommunication and protocol
- FAST SESSION and ESTABLISH and TELECOMMUNICATION and PROTOCOL
- 324 and multimedia and fast
- 324 and multimedia and (fast or speed or efficiency or speed-up)
- terminals and connect and telecommunication and 324
- 245 and telecommunication and multimedia
- process and call and reduce and setup time
- process and call and reduce and setup time and telecommunication
- 324 and process and call and reduce and setup time and telecommunication
- terminal and telecommunication network and ((call setup time) or (call and setup time) or (call and setup and time))
- 324 and (terminal or handset or server) and telecommunication and network and ((call setup time) or (call and setup time) or (call and setup and time))
- preference and (terminal or handset or server) and telecommunication and network and ((call setup time) or (call and setup time) or (call and setup and time))
- telecommunication and network and reduced and ((call setup time) or (call and setup time) or (call and setup and time))
- (terminal or equipment) and multimedia and telecommunication and reduced and ((call setup time))
- multimedia and telecommunication and ((call setup time) or (establish connection))
- reduce and time and establish and (calls or connection) and multimedia
- speed up and (calls or connection or session) and multimedia and (terminal or equipment)
- (3gpp or 3gpp2) and (245 or 324)
- concatenate and multimedia

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- interoperability and equipment and multimedia
- telecommunication network and session and establish
- telecommunication network and session and (fast or efficient or speed up)
- telecommunication network and session and (fast or efficient or speed up or reduced) and setup time
- routing and telecommunication network and setup time
- routing and telecommunication network and setup time and (reduced or fast)
- (reduce or minimize or fast or speed up) and call setup time and (telecommunication or multimedia) and network
- speed up and setup time and multimedia
- telecommunication and multimedia and reduce and time and ITU-T H 324
- call and initiate and telecommunication and multimedia and ITU-T H 324

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I. Prior Art – Relevant:

Publication	Title	Assignee	Pub. Date
1. US20040076145A1	Method and system for establishing a multimedia connection by negotiating capability in an outband control channel	-	2004-04-22
2. US20030202487A1	Method and apparatus for reducing call setup time	-	2003-10-30
3. US6636745	Method and apparatus to shorten call-setup time	Motorola, Inc.	2003-10-21
4. WO0176288A1	DUAL FALLBACK IN CIRCUIT-SWITCHED MULTIMEDIA CALL SETUP	NOKIA NETWORKS OY	2001-10-11
5. WO0137606A2	METHOD FOR ESTABLISHING A CALL IN THE PRESENCE OF OUTBAND INDICATION OF PSTN INVOLVEMENT AT MULTIMEDIA CALL SETUP	NOKIA MOBILE PHONES LTD.	2001-05-25

II. Prior Art – Marginally Relevant:

1. **Implement of system control part in a multimedia communication terminal** Du Wen Lin Rongrong Cui Huijuan This paper appears in: ***Communication Technology Proceedings, 2000.*** WCC - ICCT 2000. ***International Conference on***, Meeting Date: 08/21/2000 - 08/25/2000, Publication Date: 21-25 Aug. 2000, Location: Beijing China On page(s): 1372 - 1375 Volume: 2.

2. **An implementation of control protocol for multipoint audio-video teleconferencing systems** Kyung Hee Lee Doo-Hyun Kim Min-Gyu Kang Keun Hee Han Seung Min Park Sang Hwan Kung Distributed Multimedia Sect., Electron. & Telecommun. Res. Inst., Taejon, South Korea; This paper appears in: ***Information Networking, 1998. (ICOIN-12) Proceedings., Twelfth International Conference on*** Meeting Date: 01/21/1998 - 01/23/1998 Publication Date: 21-23 Jan. 1998 Location: Tokyo Japan On page(s): 38 – 41.

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III. Background - Review Papers on Relevant Technical Standards:

1. **The 3G-324M protocol for conversational video telephony** Jabri, M.A. Dilithium Networks, Lankspur, CA, USA This paper appears in: ***Multimedia, IEEE*** Publication Date: July-Sept. 2004 On page(s): 102 - 105 Volume: 11, Issue: 3.

2. **The H.324 multimedia communication standard** Lindbergh, D. This paper appears in: ***Communications Magazine, IEEE*** Publication Date: Dec. 1996 On page(s): 46 - 51 Volume: 34 , Issue: 12.

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EXHIBIT B